

VC BR

UNIROYAL CHEMICAL
Division of UNIROYAL, Inc.

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DATE: January 5, 1976

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SUBJECT: Vinyl Chloride Monitoring Summary - December 1975

I. Summary of Miran Results:

	Bldg. 107		Bldg. 117		Bldg. 411	
	% Time Over 25 ppm	% Time Over 5 ppm	% Time Over 25 ppm	% Time Over 5 ppm	% Time Over 25 ppm	% Time Over 5 ppm
Avg.	19.2%	79.8%	29.4%	93.9%	20.4%	79.5%
Low	3 %	44 %	2 %	58 %	3 %	6 %
High	44 %	100 %	89 %	100 %	50 %	100 %

II. Summary of Personnel VC Monitoring Results by Location:

<u>Location</u>	<u>Less than 1 ppm</u>	<u>1-5 ppm</u>	<u>6-25 ppm</u>	<u>26-100 ppm</u>	<u>101 & Over</u>	<u>No. of Readings</u>
107 Process	4.9%	46.3%	46.3%	2.1%	-0-	41
117 Process	11.4%	57.1%	17.1%	2.9%	11.4%	35
108 Finishing	-0-	38.7%	60.0%	1.3%	-0-	75
116 Shop	14.3%	66.7%	19.0%	-0-	-0-	21
100 Lab	11.1%	88.9%	-0-	-0-	-0-	9
414 S.D. Process	4.3%	52.1%	26.1%	8.7%	8.7%	23
415 S.D. Finishing	-0-	77.8%	22.2%	-0-	-0-	9
413 Paracril Process	65.7%	31.4%	2.9%	-0-	-0-	35
420 & 421 Paracril Finishing	31.0%	66.7%	2.4%	-0-	-0-	12
425 Shop	48.8%	46.3%	2.4%	-0-	2.4%	41
435 & 436 Warehouses	28.6%	42.9%	28.6%	-0-	-0-	14
432 Lab	41.7%	58.3%	-0-	-0-	-0-	12

III. All Personnel Readings over 25 ppm:

Date	Job Group	Location & Job Function	Personnel	15 Min. ppm VC	Resp. Req.	Type Resp. Worn	VC Warning Light
12-1	Welder	116, welding in shop		25.1	No	None	(no light)
12-4	Poly Oper.	107, charging polys		32.2	No	None	Off
12-4	Bowen I Oper.	108, bagging		32.4	No	None	(no light)
12-8	Poly Cleaner	414, 2nd fl., cleaning #7 poly		26.7	Yes	Airline	Off
12-13	Poly Cleaner	414, rodding out & rinsing #6 poly		637.5	Yes	Airline	Off
12-17	Pipefitter	117, working on #3 poly drop valve		174.6	Yes	None	Off
12-21	Poly Cl. Helper	117, 1st fl., opening #11 drop line		418.2	Yes	Airline	On
12-22	Poly Cl. Helper	117, 2nd fl., jetting #6 poly		1134.4	Yes	Airline	On
12-22	Stripper Oper.	117, 2nd fl., cleanup		157.4	No	None	Off
12-23	Wms. Mill Oper.	108, bagging		25.1	No	None	(no light)
12-25	Poly Cleaner	414, 2nd fl., cleaning #3 poly		121.7	Yes	Airline	Off
12-28	Stripper Oper.	117, 2nd fl., stripper & desk area		44.4	No	None	Off
12-29	Safety Insp.	414, 1st fl.		50.6	No	None	Off
12-31	Instr. Repairman	425, shop work		999.5	No	None	(no light)

REDACTED

IV. Personnel Monitoring Results on All Jobs Requiring Respirators:

<u>Date</u>	<u>Job Group</u>	<u>Location & Job Function</u>	<u>Personnel</u>	<u>15 Min. ppm VC</u>	<u>Type Respirator Worn</u>
12-2	Poly Cleaner	117, 2nd fl., jetting poly		11.8	Airline
12-3	Poly Cleaner	414, 2nd fl., opening poly		2.6	Airline
12-5	Poly Cl. Helper	107, 2nd fl., opening #23 poly		4.7	Airline
12-7	Poly Cl. Helper	414, cleaning manifolds		6.3	Airline
12-8	Poly Cleaner	414, 2nd fl., cleaning #7 poly		26.7	Airline
12-9	Poly Cleaner	107, 2nd fl., closing #17 poly		10.3	None
12-13	Poly Cleaner	414, rodding out & rinsing #6 poly		637.5	Airline
12-14	Poly Cleaner	107, cleaning #21 poly		5.9	Airline
12-16	Poly Cl. Helper	107, 2nd fl., closing #16 poly		15.6	Airline
12-16	Poly Cleaner	107, 2nd fl., closing #16 poly		21.6	Airline
12-16	Poly Cleaner	414, cleaning #10 poly		5.6	Airline
12-17	Pipefitter	117, working on #3 poly drop valve		174.6	None
12-18	Poly Cl. Helper	117, 2nd fl., opening #2 poly		6.9	Airline
12-19	Poly Cleaner	107, 2nd fl., jetting #24 poly		22.1	Airline
12-20	Poly Cleaner	414, 2nd fl., cleaning #5 poly		7.4	Airline
12-21	Poly Cl. Helper	117, 1st fl., opening #14 drop line		418.2	Airline
12-22	Poly Cleaner	414, 2nd fl., cleaning #8 poly		7.1	Airline
12-22	Poly Cl. Helper	117, 2nd fl., jetting #6 poly		1434.4	Airline

REDACTED

IV. Personnel Monitoring Results on All Jobs Requiring Respirators: (cont.)

<u>Date</u>	<u>Job Group</u>	<u>Location & Job Function</u>	<u>Personnel</u>	<u>15 Min. ppm VC</u>	<u>Type Respirator Worn</u>
12-25	Poly Cleaner	414, 2nd fl., cleaning #3 poly		121.7	Airline
12-25	Poly Cleaner	117, cleaning #9 poly		17.3	Airline
12-26	Poly Cl. Helper	107, 2nd fl., cleaning #27 poly		7.5	Airline
12-27	Poly Cleaner	414, cleaning #12 poly		12.3	Airline
12-28	Poly Cl. Helper	107, cleaning #23 poly		18.1	Airline
12-28	Poly Cleaner	107, 2nd fl., cleaning poly manifolds		12.0	Airline
12-30	Poly Cl. Helper	107, 2nd fl., jetting #17 poly		12.8	Airline

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V. Summary of Fixed Points Results (Century OVA Instrument)

	<u>% Time Less 5ppm</u>	<u>% Time 6-25ppm</u>	<u>% Time 26-100ppm</u>	<u>% Time Over 100ppm</u>
Building 107	25.3%	73.3%	1.4%	-0-
Building 117	14.4%	80.6%	4.3%	.7%
Building 108	22.6%	76.8%	.3%	.3%
Building 414	19.4%	77.0%	3.2%	.4%
Building 415	23.4%	75.0%	1.6%	-0-

	<u>Bldg. 107</u>	<u>Bldg. 117</u>	<u>Bldg. 108</u>	<u>Bldg. 414</u>	<u>Bldg. 415</u>
Avg. (ppm)	7.5	12.1	8.0	11.3	7.3
Hi. (ppm)	30	150	30	100	60
Low (ppm)	3	3	3	3	3

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VI. Summary of Emission Points (Century OVA Instrument)
(Readings in ppm)

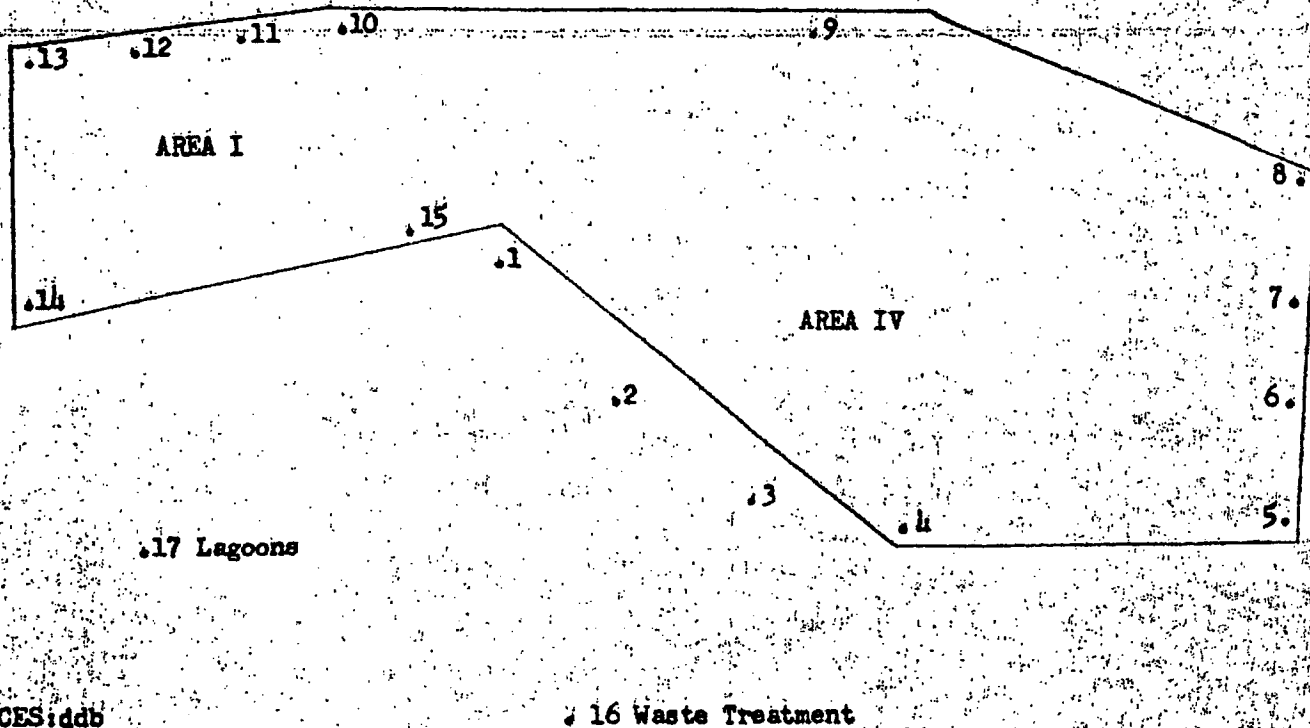
Emission Point No.	Bldg. No.	Exhaust From	Avg.	Hi	Low
S-001	108	Wms mills dust collector	21.1	30	4
S-002	108	Tank 4 - Swenson	16.4	80	4
S-003	108	Tank 5 - Swenson	14.2	50	3
S-004	108	Tank 6 - Bowen I	9.4	50	3
S-005	108	Tank 7 - Bowen I	11.1	40	3
S-006	Fin'g Annex	Tank 10 - Williams Mill	340.0	8000	6
S-007	108	Solidaire grinder collector	7.1	15	3
S-008	108	Solidaire dryer collector	8.3	18	3
S-010	108	Swenson main collector	15.0	40	3
S-011	108	Swenson conveyor	9.8	20	3
S-012	108	Swenson north grinder collector	7.6	30	3
S-013	108	Swenson south grinder collector	7.7	25	4
S-014	108	Niagara bagger collector	Not in Service		
S-015	108	Bowen I west grinder collector	11.8	45	3
S-016	108	Bowen I east grinder collector	11.4	46	3
S-017	108	Bowen I main collector	31.3	100	3
S-018	108	Bowen I test cell collector	28.0	110	3
S-019	108	Bowen I product conveyor	12.1	38	3
S-020	108	Bowen II grinder collector	10.8	40	3
S-021	108	Bowen II main collector	20.9	50	5
S-022	108	Bowen II product conveyor	8.6	20	3
S-023	108	Tank 11 - Bowen II	518.6	7000	3
S-024	108	Tank 12 - Bowen II	210.4	3000	4
S-031	Area 4	Silos and hopper cars			
		Silos	13.0	18	4
		Hopper cars	7.7	14	5
S-032	S.D.	East slurry tank	610.0	6000	4
S-033	S.D.	West slurry tank	876.6	6000	4
S-034	415	Main collector	8.1	18	3

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VII. Summary of Peripheral Samples (Air Vacuum Cans)
(Readings in ppm)

Location No.	Avg.	Hi	Low
1	0.2	0.4	ND
2	0.4	1.5	ND
3	0.2	0.5	ND
4	0.2	0.8	ND
5	0.1	0.4	ND
6	1.4	6.6	ND
7	0.5	1.2	ND
8	0.2	0.6	ND
9	0.2	0.4	ND
10	0.8	3.2	ND
11	0.3	1.1	ND
12	0.4	0.7	ND
13	0.2	0.4	ND
14	0.2	0.5	ND
15	0.3	0.9	ND
16	0.1	0.4	ND
17	0.2	0.3	ND



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16 Waste Treatment